

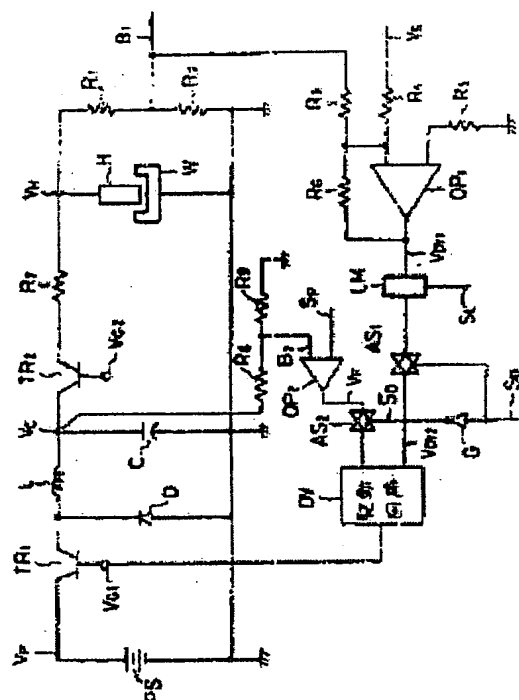
ELECTRIC DISCHARGE MACHINING ELECTRIC CURRENT CONTROL CIRCUIT

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Inventor: SHIMOKAWABE TOSHIAKI
Applicant: NIPPON ELECTRIC CO
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Abstract of JP1210219

PURPOSE: To improve machining surface roughness of a workpiece by controlling output voltage of a d.c. power supply for machining according to a detected machining gap voltage signal and a preset voltage signal to keep electric discharge machining current constant.
CONSTITUTION: Both end voltage VC of a condenser C is applied as voltage pulse to a machining gap between a machining electrode H and a work W by a transistor TR2 operated according to an on-off signal VG2. The machining gap voltage VH is divided by resistances R1, R2 to become a machining gap voltage signal B1, and discharge voltage control signal VDV1 to which an offset voltage signal VS is added is output from an adder OP1. A driving circuit DV changes an on-off gate signal VG1 of a transistor TR1 through an analog switch AS1 effective to a signal immediately after discharge is started, whereby both end voltage VC of a condenser C is controlled to keep electric discharge machining current constant. Thus, the machining surface roughness of a workpiece W can be improved.



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